

DATES & DATA

May 18

Chess Club meets: The Space City Chess Club meets each Friday evening - May 18 and 25 and June 1 and 8 - from 5:30 p.m. until 9 p.m. at the Clear Lake United Methodist Church, 16335 El Camino Real, room 423. All skill levels are welcome. For more information, please call James Mulberry at x39287 or James Termini at x32639.

May 23

Spaceland Toastmasters meet: The Spaceland Toastmasters meets on Wednesday mornings at 7 a.m. at the House of Prayer Lutheran Church 1515 Bay Area Blvd at Reseda. For more information, contact Ava Sloan at 713-768-6336 or asloan@hal-pc.org

Spaceteam Toastmasters meet: The Spaceteam Toastmasters meet on Wednesdays at 11:30 a.m. at United Space Alliance, 600 Gemini. For more information contact Patricia Blackwell at (281) 280-6863.

May 24

Communicators meet: The Clear Lake Communicators, a Toastmasters International club, meets on Thursdays at 11:30 a.m. at Wyle Laboratories, 1100 Hercules, Suite 305. For more information contact Allen Prescott at (281) 282-3281 or Richard Lehman at (281) 280-6557.

May 31

Radio Club meets: The JSC Amateur Radio Club meets at 6:30 p.m. at Piccadilly, 2465 Bay Area Blvd. For details contact Larry Dietrich at x39198.

June 4

CLA-NSS meets: The Clear Lake area chapter of the National Space Society meets at 6:30 p.m. at the Parker Williams Branch of the Harris County Library at 10851 Scarsdale Blvd. For more information contact Murray Clark at (281) 367-2227.

NSBE meets: The National Society of Black Engineers

meets at 6:30 p.m. at Texas Southern University, School of Technology, first floor. For more information contact Kimberly Topps at (281) 280-2917.

June 5

Quality Society meets: The Bay Area Section of the American Society for Quality meets at 6 p.m. at Franco's Restaurant. For more information contact Ann Dorris at x38620.

June 7

Warning System Test: The site-wide Employee Warning System performs its monthly audio test at noon. For more information contact Bob Gaffney at x34249.

June 8

Astronomers meet: The JSC Astronomical Society meets at 7:30 p.m. at the Center for Advanced Space Studies, 3600 Bay Area Blvd. For more information contact Chuck Shaw at x35416 or go to the website: <http://www.ghg.net/cbr/jscas/>

June 12

IAAP meets: The Clear Lake/NASA Chapter of the International Association of Administrative Professionals will hold its 2001-2002 Installation at 5:30 p.m. in the Colonial Room at Grace Community Church, 14325 Crescent Landing. Contact Frances Jackson 281 929 1001 or fjackson@cprk.com for more information.

Aero Club meets: The Bay Area Aero Club meets at 7 p.m. at the Houston Gulf Airport clubhouse at 2750 FM 1266 in League City. For more information contact Larry Hendrickson at x32050 or checkout www.bayareaaeroclub.org.

June 13

MAES meets: The Society of Mexican-American Engineers and Scientists meets at 11:30 a.m. in Bldg. 16, Rm. 111. For more information contact Margaret C. Delgado at 713-643-6097 or mcdelgad@aol.com.

Welcome neighbors!

Members of the Human Resources Education and Student Programs Branch (AH2) recently organized an Education Open House to introduce themselves and their programs to other members of the Human Resources Organization. Many of the new AH2 members are former Public Affairs Office employees that were reassigned to the Human Resources Office (HRO) last summer.

Since the new HRO Team Members were not able to immediately move in with their new organization due to space limitations, the Open House was timed to also celebrate the move to their new offices, now located in Building 12. This event offered both old and new members of Human Resources a chance to get to know each other and to learn more about their contributions to JSC, its employees and to its community. AH2 plans to hold a similar event for all JSC employees in the near future.



Pictured above mingling at the recent Education Open House event are Erika Guillory, Diane Hawkins, Donna Stuart, Gracie Torres and Anita Madrigal.

TICKET WINDOW

	JSC Price	Gate Price (includes tax)
AMC Theaters	\$5.00	\$7.50
Astroworld Early Bird (purchase by June 17)	\$19.50	\$38.96
Astroworld One Day Admission	\$20.50	\$38.96
Astroworld 2 Day Admission	\$31.00	\$43.29
Fiesta Texas Adult	\$21.50	\$38.82
Fiesta Texas Child (under 48")	\$18.75	\$19.42
Moody Gardens (2 events)	\$10.75.**	\$27.01 all day
** ticket does not include Aquarium Pyramid		
Moody Gardens - Aquarium only		\$9.25
Sea World adult.....	\$30.00	\$36.75
Sea World child (ages 3-11).....	\$20.50	\$25.93
Space Center Houston.....	\$9.25	\$16.18
JSC civil service employees free.		

Check out our new Web site on the JSC People page at: <http://hro.jsc.nasa.gov/giftshop/>

Exchange Store hours

Monday-Friday
Bldg. 3 7 a.m.-4 p.m.
Bldg. 11 9 a.m.-3 p.m.

- All tickets are nonrefundable.
- Metro tokens and value cards are available.
- Sweetwater Pecans \$6.25 per lb.
- Chocolate-covered Pecans . . . \$8.00 per lb.

*For additional information,
please call x35350.*

*Please bring your driver's
license to pay by personal check.*

NASA BRIEFS

**NASA PREPARES FOR
FIRST SCRAMJET-POWERED
HYPERSONIC FLIGHT**

Imagine a new breed of space transportation vehicle, able to fly at seven times the speed of sound, using a next-generation air-breathing jet engine. NASA takes a hypersonic leap into the future of aerospace technology with the flight of the scramjet-powered X43A.

The first unpiloted X-43A and its Pegasus booster rocket will be air-launched from a B-52 from NASA's Dryden Flight Research Center, Edwards, CA. The booster will accelerate the X-43A to Mach 7 at approximately 95,000 feet. At booster burnout, the X-43 will separate and fly under its own power on a pre-programmed flight path.

Unlike a rocket that carries its own oxygen for combustion, the X-43A's scramjet scoops air from the atmosphere, making the aircraft lighter, which enables it to carry heavier payloads. It will be the first time a non-rocket propelled, air-breathing engine has powered a vehicle in flight at hypersonic speeds, or five times the speed of sound.

For more information, see:

<http://www.dfrc.nasa.gov/projects/hyper/x43.html>

**NEW BOOMERANG FINDINGS
REVEAL "MUSIC" OF THE
EARLY UNIVERSE**

An international team of cosmologists has begun to hear the "music of creation" in its discovery of acoustic "notes" in the sound waves that rippled through the universe not long after the Big Bang.

The new results—from a detailed analysis of high-resolution images obtained by the BOOMERANG (Balloon Observations of Millimetric Extragalactic Radiation and Geophysics) experiments—provide the most precise measurement to date of several of the key characteristics which cosmologists use to describe the universe.

The BOOMERANG images are the first to bring the cosmic microwave background (CMB) into sharp focus. The presence of these harmonic peaks bolsters the theory that the universe grew from a tiny subatomic region during a period of violent expansion a split second after the Big Bang.

BOOMERANG is an extremely sensitive microwave telescope suspended from a balloon that circumnavigated the Antarctic in late 1998. The balloon carried the telescope at an altitude of almost 37 kilometers (120,000 feet) for 10 1/2 days. The images were published just one year ago.

For more information on and images from BOOMERANG, see:
<http://www.physics.ucsb.edu/~boomerang/>
and

<http://oberon.roma1.infn.it/boomerang>

SPACE CENTER **Roundup**

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Managing EditorMelissa Davismelissa.davis1@jsc.nasa.gov
Assistant EditorJulie Burtjulie.v.burt1@jsc.nasa.gov

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